

green; tail slaty blue tinged with green, the four central feathers largely tipped with chestnut; band across the rump sulphur-yellow; throat and cheeks white, blending into the light blue of the breast and abdomen; thighs rich chestnut; under tail-coverts blood-red; feet greenish blue, with a lilac tinge on their under surface; bill black, with a mark of obscure brownish red at the base of the upper mandible, which, when viewed in front, much resembles the letter W, this colour advancing for a short distance on each side of the culmen, and extending down the sides of the base.

Total length, 18 inches; bill, $3\frac{3}{4}$; wing, 7; tail, $7\frac{1}{2}$; tarsi, $1\frac{3}{4}$.

Hab. Forest of Beza, on the eastern side of the Cordillera in Ecuador.

The following papers were read:—

1. NOTE ON THE VARIATION OF THE FORM OF THE UPPER MANDIBLE IN A RAPACIOUS BIRD. BY PHILIP LUTLEY SCLATER.

Mr. J. H. Gurney has called my attention to the great variation in the form of the upper mandible of *Urubitinga unicincta*, as observable in the specimens now before the Society, which form part of his collection. I have seen the same sort of thing in the case of other *Accipitres*, but never carried to such an extent as in the present instance. In one of these birds (fig. 1) the lateral margins of the upper mandible are strongly festooned, and project far down

Fig. 1.

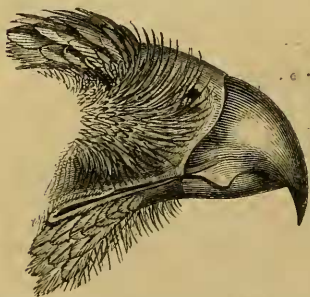
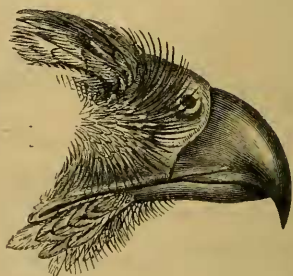


Fig. 2.



over the edges of the lower. In a second specimen (fig. 2)—apparently of about the same age, both being in immature plumage—the commissure is very nearly straight. In other examples there is merely a slight festoon. As the formation of the edges of the upper mandible is much in use as a generic character—rightly enough, I believe, and not generally liable to lead to error—the present abnormal variation seems worthy of notice.

2. ON SIPHONARIA. BY SYLVANUS HANLEY.

Having examined the whole of the specimens delineated in the recent Monograph of this genus in the 'Conchologia Iconica,' I have been induced to describe a few additional species, and to offer a few remarks upon the subject. From the versatility of form and sculpture exhibited by most Limpets, the synonymy of the *Siphonaria* demands a greater amount of leisure to elaborate than I can at present anticipate; but in the confident belief that the following crude list of published species, being the most ample which has yet appeared, cannot fail to aid and interest the future student of this difficult genus, I now transcribe it from my note-book. A single asterisk is appended where the species has been adopted or defined by Mr. Reeve; twin asterisks denote that, although mentioned, it has been regarded by him as superfluous or varietal:—

- **acuta*, Quoy, Zool. Astrol.
- Adamsi*, Blainville, Dict. Sc. Nat. xlix. (= *pectinata*).
- **capillorata*, Reeve, Conch. Icon.
- ***albicans*, Quoy, Zool. Astrol.
- Algesira*, Quoy, *ibid.* (probably = *pectinata*).
- alternata*, Say, Americ. Conch. (seems immature).
- alternicostata*, Potiez et Mich. Gal. Douai.
- **amara*, Nuttall, MSS. in Reeve, Conch. Icon.
- Antarctica*, Gould, Exped.
- aspera*, Krauss, Süd-afrik.
- **atra*, Quoy, Zool. Astrol.
- Australis*, *ibid.*
- **Baconi*, Reeve, Conch. Icon.
- Belcheri*, Hanley, Proc. Zool. Soc.
- **bifurcata*, Reeve, Conch. Icon.
- Blainvillei*, Hanley, Proc. Zool. Soc.
- **Brasiliana*, Reeve, Conch. Icon.
- brunnea*, Hanley, Proc. Zool. Soc.
- **cancer*, Reeve, Conch. Icon.
- Capensis*, Quoy, Zool. Astrol.
- carbo*, Hanley, Proc. Zool. Soc.
- **characteristica*, Reeve, Conch. System.
- **cochleariformis*, Reeve, Conch. Icon.
- **concinna*, Sowerby, Proc. Zool. Soc.
- conica*, Blainville, Dict. Sc. Nat.
- ***Coreensis*, Adams & Reeve, Zool. Samarang.
- cornuta*, Gould, Proc. Bost. Soc.
- **corrugata*, Reeve, Conch. Icon.
- **costata*, Sowerby, Proc. Zool. Soc. = *lincolata*, Reeve.
- costata*, Hombrón and Jacquinot.
- crenata*, Blainville, Dict. Sc. Nat.
- **denticulata*, Quoy, Zool. Astrol.
- **Diemenensis*, *ibid.*
- ***exigua*, Sowerby (as of Martini), Genera.

- exulorum*, Hanley, Proc. Zool. Soc.
 **ferruginea*, Reeve, Conch. Icon.
 **fuliginata*, *ibid.*
 **funiculata*, *ibid.*
grisea (as *Patella*), Gmelin, Syst. Nat. (= *pectinata*).
Guamensis, Quoy, Zool. Astrol.
lirata, Reeve, Conch. Icon.
 **gigas*, Sowerby, Tankerv. Cat.
inculta, Gould, Proc. Bost. Soc.
Japonica (as *Patella*), Donovan, Nat. Repos.
Javanica (as *Patella*), Lamk. Anim. s. Vert. (? = *exigua*).
Jonasii, Dunker, Guin.
 **Kurracheensis*, Reeve, Conch. Icon.
laevis, Philippi, Zeitschr. Mal.
 **laeviuscula*, Sowerby, Proc. Zool. Soc.
lateralis, Gould, Proc. Bost. Soc.
lecanium, Philippi, Zeitschr. Mal.
lepida, Gould, Proc. Bost. Soc.
 ***Lessoni*, Blainville, Malac.
leucopleura, Blainville, Dict. Sc. Nat.
 **lineolata*, Sowerby, Proc. Zool. Soc. = *costata*, Reeve.
 **Luzonica*, Reeve, Conch. Icon.
 **Macgillivrayi*, *ibid.*
Magellanica, Philippi, Mal. Blat.
 **Maura*, Sowerby, Proc. Zool. Soc.
Le Mouret, Adanson, Senegal.
Natalensis, Krauss, Süd-afrik.
normalis, Gould, Proc. Bost. Soc.
Nuttallii, Hanley, Proc. Zool. Soc.
 **obliquata*, Sowerby, Tankerv. Cat.
oculus, Krauss, Süd-afrik.
 **palpebra*, Reeve, Conch. Icon. (= *pectinata*).
parma, Hanley, Proc. Zool. Soc.
pectinata (as *Patella*), Linn. Syst. Nat.
 **pica*, Sowerby, Proc. Zool. Soc.
picta, D'Orbigny, Amér. Mérid.
placentula, Menke, Zeitschr. Mal.
 ***plana*, Quoy, Zool. Astrol.
 ***plicata*, *ibid.*
 ***punctata*, *ibid.*
radiata, Blainville, Dict. Sc. Nat.
radiata, Sowerby, Proc. Zool. Soc.
 **redimiculum*, Reeve, Conch. Icon.
Savignyi, Philippi, Zeitschr. Mal. (= *crenata*).
 **scabra*, Reeve, Conch. Icon.
 ***scutellum*, Deshayes, Mag. Zool. (= *obliquata*).
 **sipho*, Sowerby, Genera Shells.
 **Siquijorensis*, Reeve, Conch. Icon.
Sowerbyi, Mich. Mag. Zool.
 **spinosa*, Reeve, Conch. Icon.

- stellata*, Blainville (as of Roissy), Diet. Sc. Nat.
striato-costata, Dunker, Guin.
subrugosa, Sowerby, Proc. Zool. Soc.
 **Tristensis*, Sowerby (as of Leach), Genera Shells.
umbonata, Menke, Zeitschr. Mal.
variabilis, Krauss, Süd-afrik. (as = *concinna*).
 **venosa*, Reeve, Conch. Icon.
viridis, Quoy, Zool. Astrol.
 **zebra*, Reeve, Conch. Icon.
 ***Zelandica*, Quoy, Zool. Astrol.

S. NUTTALLII. *S. testa ovata, subsymmetrica, conica aut subconica, crassa, costis parvis rotundulis, costulisque depressioribus, arcte radiata; squalide albida, interstitiis costarum fumoso-fuscis: apice centrali, piceo, acuto: pagina interna superne castanea, inferne flavescente, seu pallida, lineis brunneis radiantibus ornata: siphunculo inconspicuo.*

Long. 7 lin., lat. $5\frac{1}{2}$ lin.

Hab. Littora Insularum Sandvicensium (Dr. Frick). Mus. Cuming.

Very like a dwarf *Patella vulgata*. The ribs occasionally are slightly nodulous.

S. BELCHERI. *S. testa tenui, ovata, subconica, brunnea, costis (plerumque pallidioribus, seu albidis) parvis, simplicibus, rotundatis, subremote radiata: lateribus valde inæqualibus: apice acuto, recurvo, postico, nigrescente; costu siphonifera conspicua: superficie interna suturate brunnea, plerumque ut marginem lacinosum albedo-subarticulata.*

Long. 7 lin., lat. $5\frac{2}{3}$ lin.

Hab. —? Mus. Hanley.

Was brought over in the 'Samarang' by Sir E. Beleher, and probably taken in the Indian seas. It is prettily vandyked with white on the inner margin. The ribs are about 25 to 30 in number.

S. BLAINVILLEI. *S. testa suborata, conica, crassiuscula, subsymmetrica, costis permultis, levibus, rotundato-planulatis, et marginem versus costulis depressioribus alternantibus, undique radiata; interstitiis costarum albarum chocolatis, haud angustis: costa siphonifera vel nulla vel inconspicua: apice subcentrali: superficie interna superne albida, deinde brunnea, marginem versus subsimplicem pallida et lineis geminis fuscis pulchre radiata.*

Long. $10\frac{1}{2}$ lin., lat. $8\frac{1}{3}$ lin.

Hab. —? Mus. Hanley.

The apex of the only individual I have ever seen has been worn smooth; it is ochraceous, and upright. There are about 30 well-separated ribs, and the same number of intervening riblets. The siphon is almost superficial, but is indicated by the absence of colouring matter.